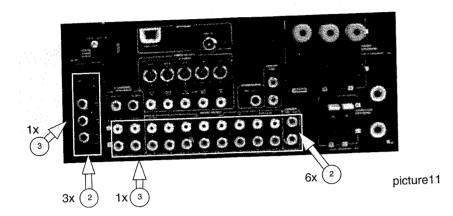
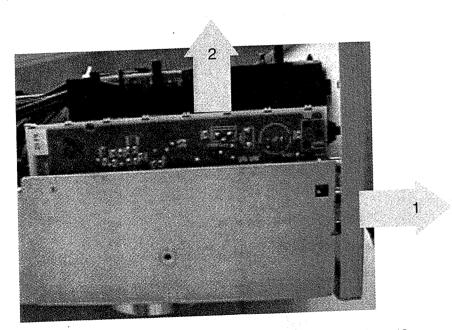
DISMANTLING HINTS

Dismantling of MDM module

1) Remove all the screws mentionned in the arial . See picture 11



- 2) Remove backplate a little backwards. See arrow 1 (picture 12)
- 3) Pull module out the set as shown in picture 12

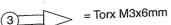


picture12

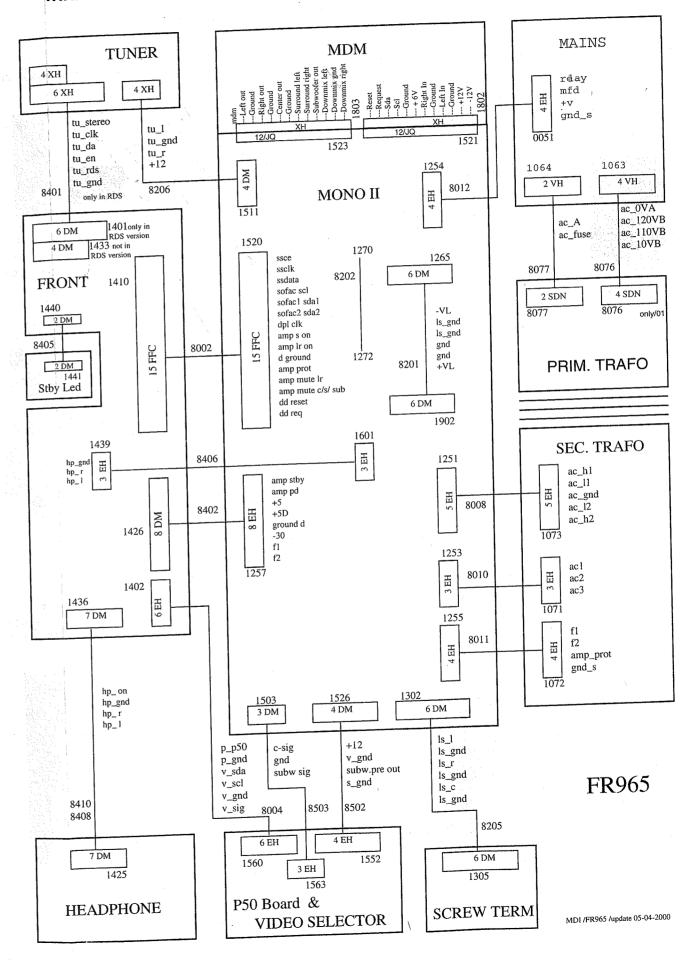
Legend

= Torx M3x6mm (screw with big head)

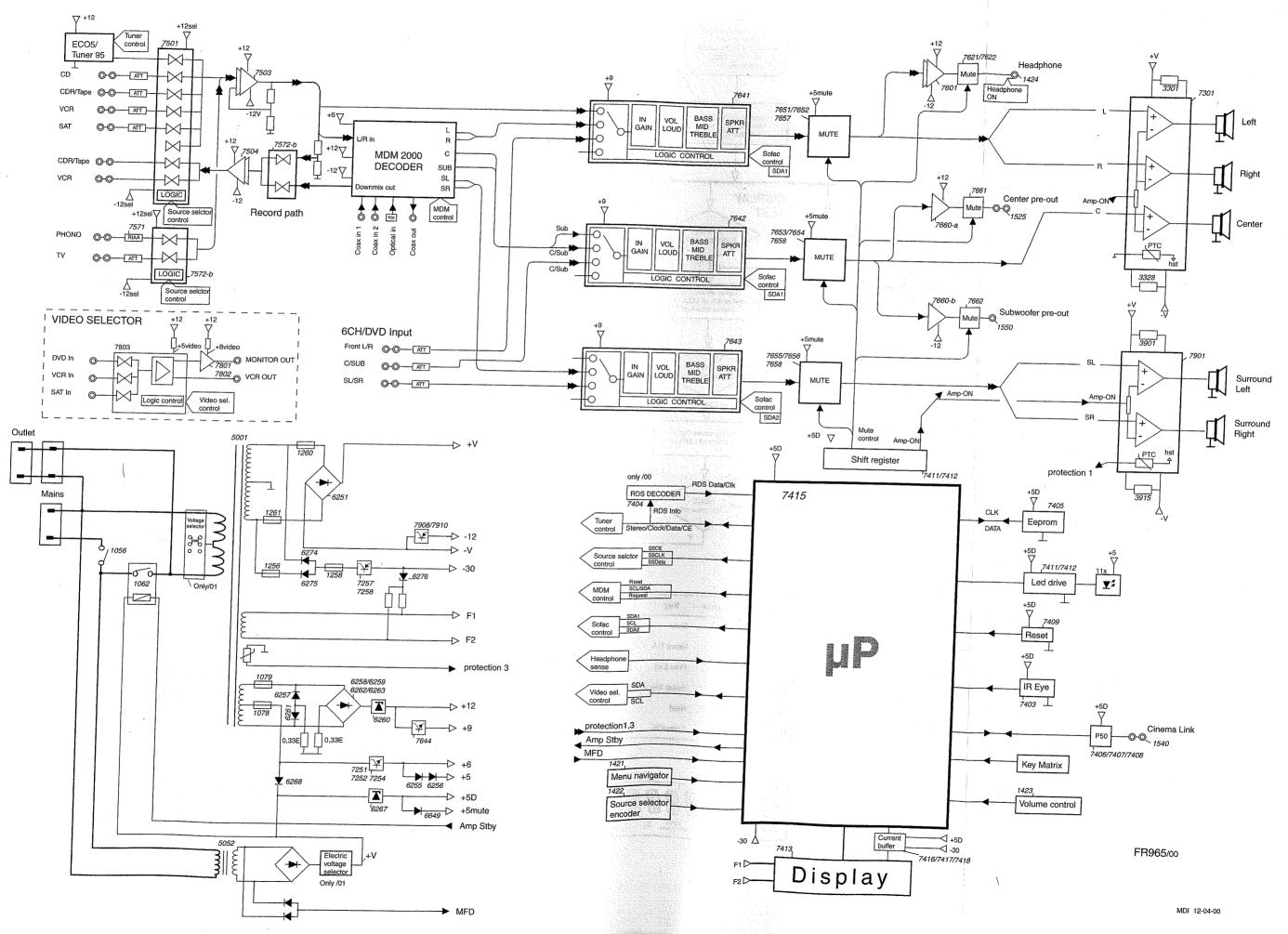
> = Torx 3x10mm



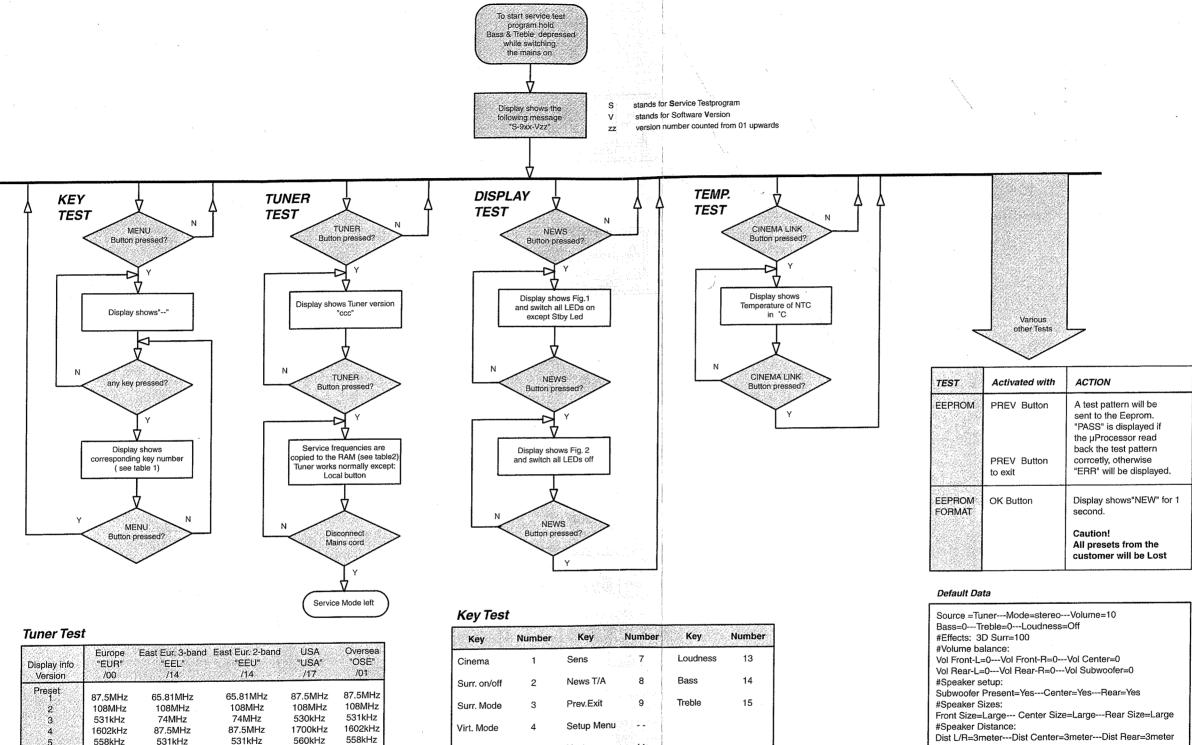
WIRING DIAGRAM



BLOCKDIAGRAM



SERVICE TEST PROGRAM



Display info Version	Europe "EUR" /00	East Eur. 3-band "EEL" /14	East Eur. 2-band "EEU" /14	USA "USA" /17	Oversea "OSE" /01
Preset	87.5MHz	65.81MHz	65.81MHz	87.5MHz	87.5MHz
2	108MHz	108MHz	108MHz	108MHz	108MHz
3	531kHz	74MHz	74MHz	530kHz	531kHz
4	1602kHz	87.5MHz	87.5MHz	1700kHz	1602kHz
5	558kHz	531kHz	531kHz	560kHz	558kHz
6	1494kHz	1602kHz	1602kHz	1500kHz	1494kHz
7	153kHz	558kHz	558kHz	98MHz	
8	279kHz	1494kHz	1494kHz		
9	198kHz	153kHz	98MHz		
10	98MHz	279kHz	70.01MHz		
11		198kHz			98MHz

This table is valid for all types of tuners.

Custormer presets will not changed after this Tuner test.

If a station is tuned then the display flag "OK" will be ON otherwise it will be OFF. If the tuned frequency is carrying RDS information, the display flag "RDS" will be ON. Oversea version: the tuning grid can be switched between 9kHz and 10kHz by pressing

Table 2

the key "TUNER" for longer then 2 seconds. "Grid 9" or "Grid10" will be shown accordingly. Grid 9kHz is in FM 50kHz , Grid 10kHz is in FM 100kHz

Europe version: the LW can be switched On and Off by pressing the key "TUNER" for longer than 2 seconds. LW OFF or LW ON will be shown accordingly.

Key	Number	Key	Number	Key	Number
Cinema	1	Sens	7	Loudness	13
Surr. on/off	2	News T/A	8	Bass	14
Surr. Mode	3	Prev.Exit	9	Treble	15
Virt. Mode	4	Setup Menu			
Tuner	5	Next	11		
Radio Text	6	Enter/OK	12	-	i .
					Table

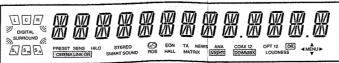


Figure 1



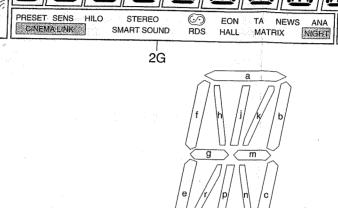
Figure 2 FR965/00mdi 17-04-00

5G 6G 7G 8G 9G 10G 11G 12G 13G 14G 15G 16G

3G

FTD DISPLAY PIN CONNECTIONS





	1G	2G	3G	4G~11G	12G	13G ,14G	15G	16G
P1	[L]	MATRIX	DOWNMIX	a	a	а	a	1
P2	R	NIGHT	COAX	jр	jр	jр	 	a
Р3	С	ANA	1(coax)	h	h	h h	j p h	jр
P4	(c)	LO	2(coax)	k	k	k	k	h
P5	(s _L)	CINEMA LINK	OPT	b	b	b	b	k b
P6.	(s _R)	EON	1 (opt)	f	f	f	f	f
P7	S _W	HALL	2(opt)	m	m ·	m		
P8	S (L)	HI	LOUDNESS	g	g	g	m	m
P9	L	NEWS	V	C	C	C	g	g
P10	S _(R)	PRESET	MENU	е	e	e	С	C
P11	R	RDS	>	r	r	r	е	е
P12	》 他	SMART SOUND	OK	n		n	r	r
P13	a (c.	STEREO	4	d	n d	d	n	n
P14	SURROUND	TA		<u> </u>			d	d
P15	DIGITAL	SENS	- 1		(1)	-	(2)	

Pin Connection

Pin numbers	5444444443333333333332222222221111111111
Connection	1234567890123456NNNNNNN1111111PPPPPPPPPNNNNNNNNNNNNNFF GGGGGGGGGGGGGCCCCCC543210987654321CCCCCCCCPP11

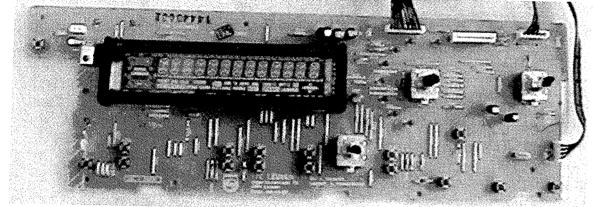
Pin numbers	62	6	60	5 9	58	5	5	5	54	53	52	5	
Connection	F 2	F 2	N P	N P	NC	N C	N	N	N	N	N C	N C	

Note: FI, F2 ----- Filament

NC ----- No connection

NP ----- No pin

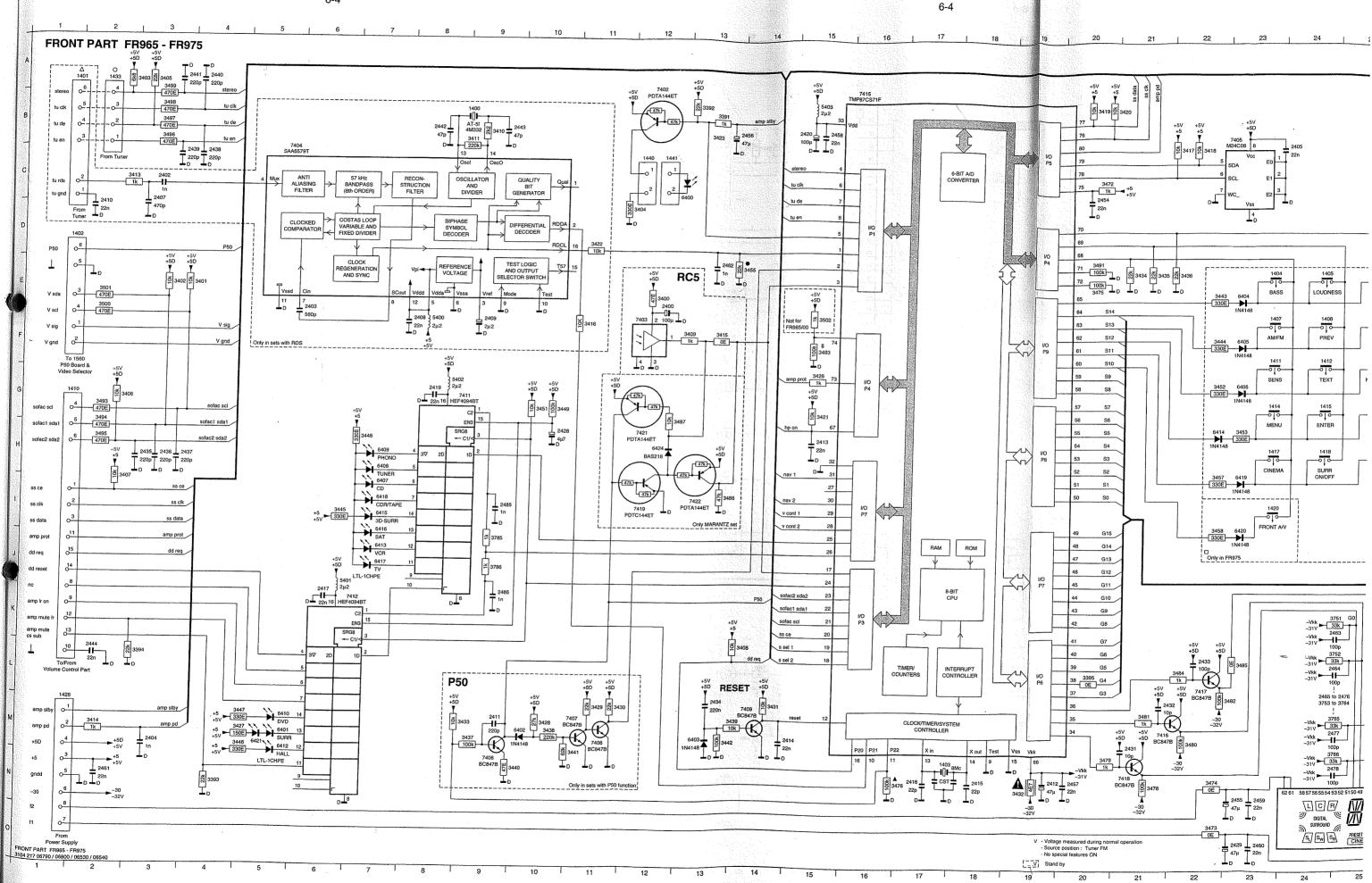
1G ~ 16G ---- Grid

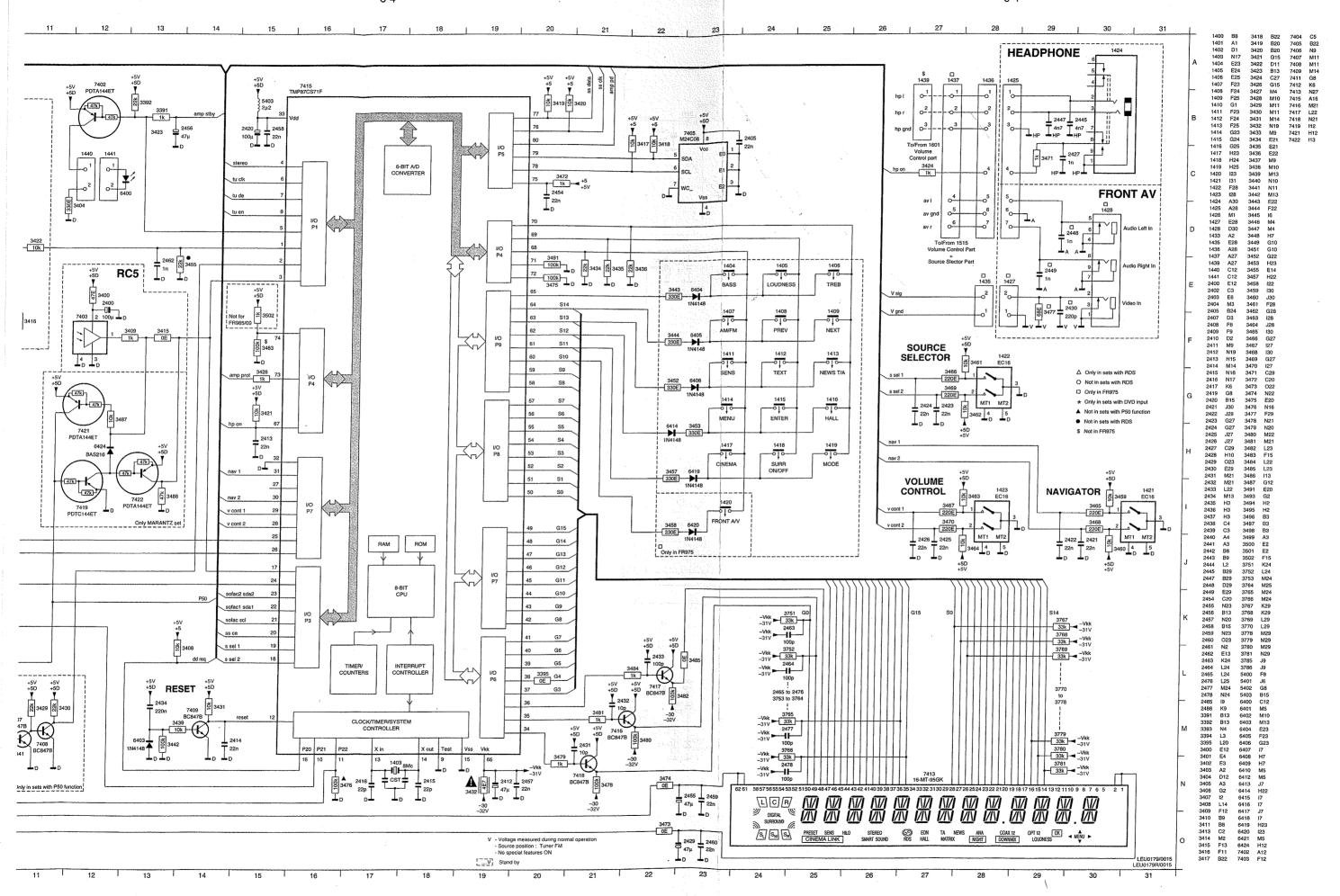


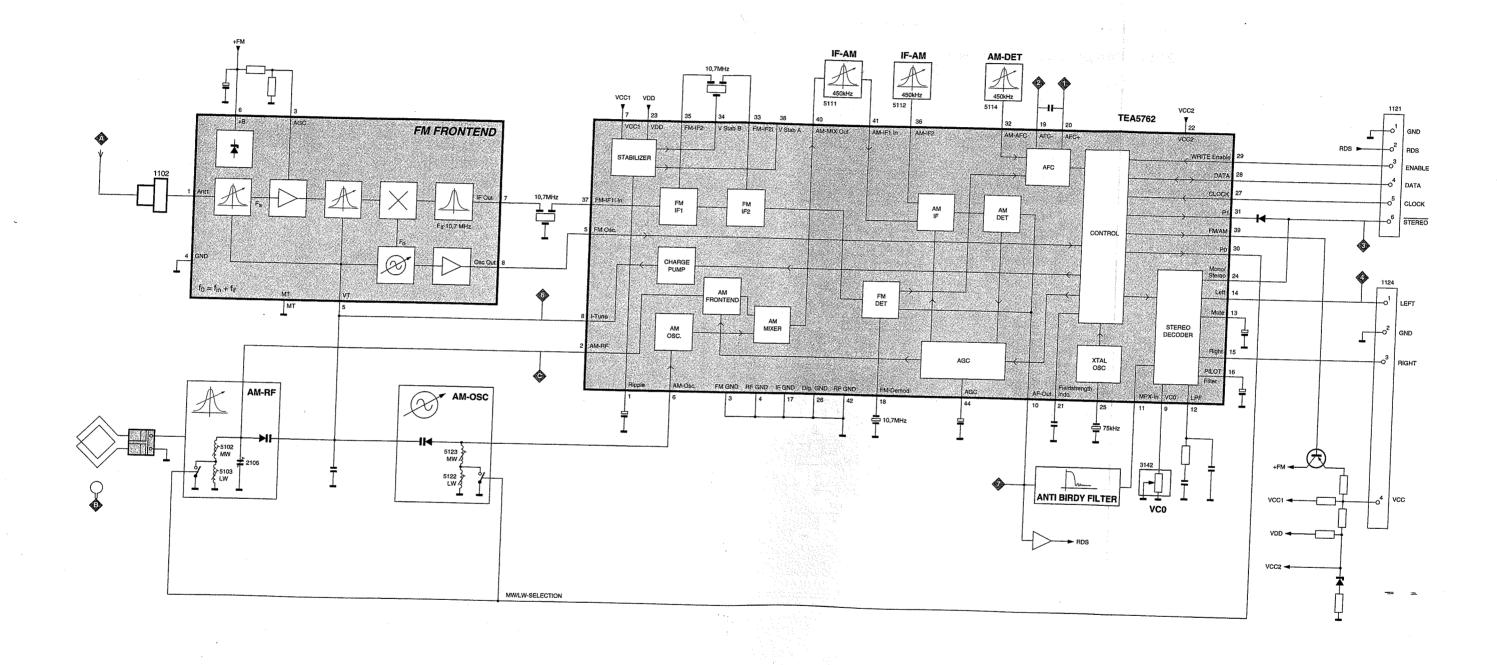
FRONT BOARD

TABLE OF CONTENTS

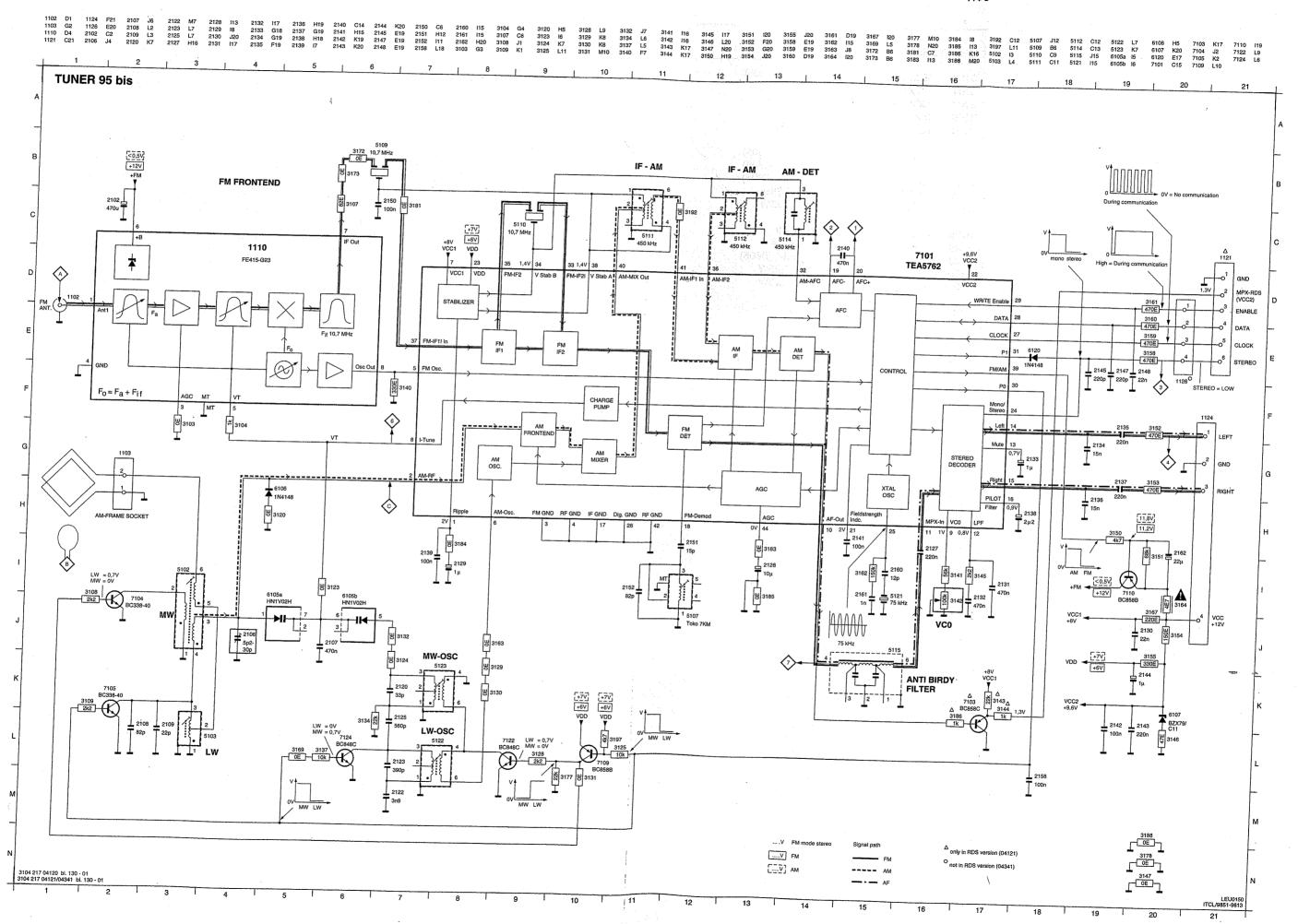
FTD Display pin connections	6-2
Headphone & Led board layout	6 4
Circuit diagram	6
Component layout	6 5
Partslist	6-6



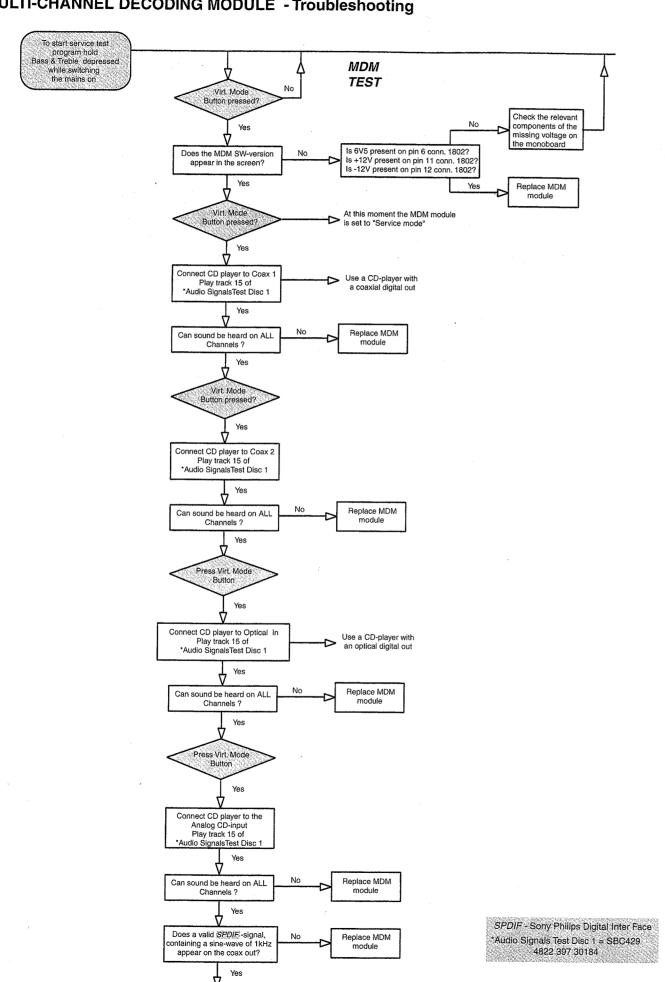




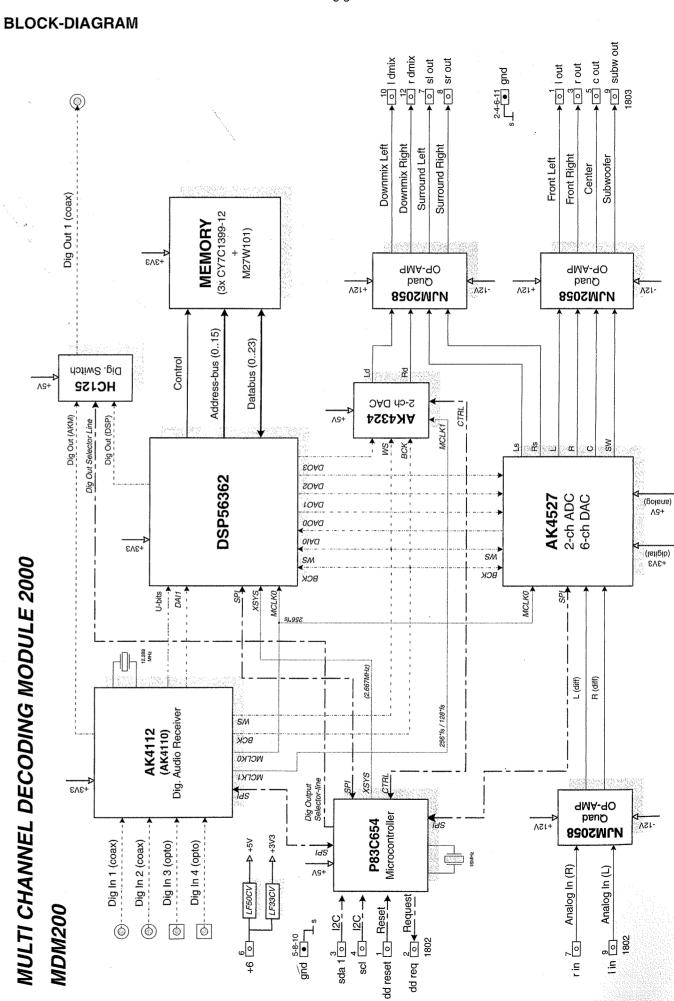
⁴⁰⁵402 / DRUCK 11



MULTI-CHANNEL DECODING MODULE - Troubleshooting



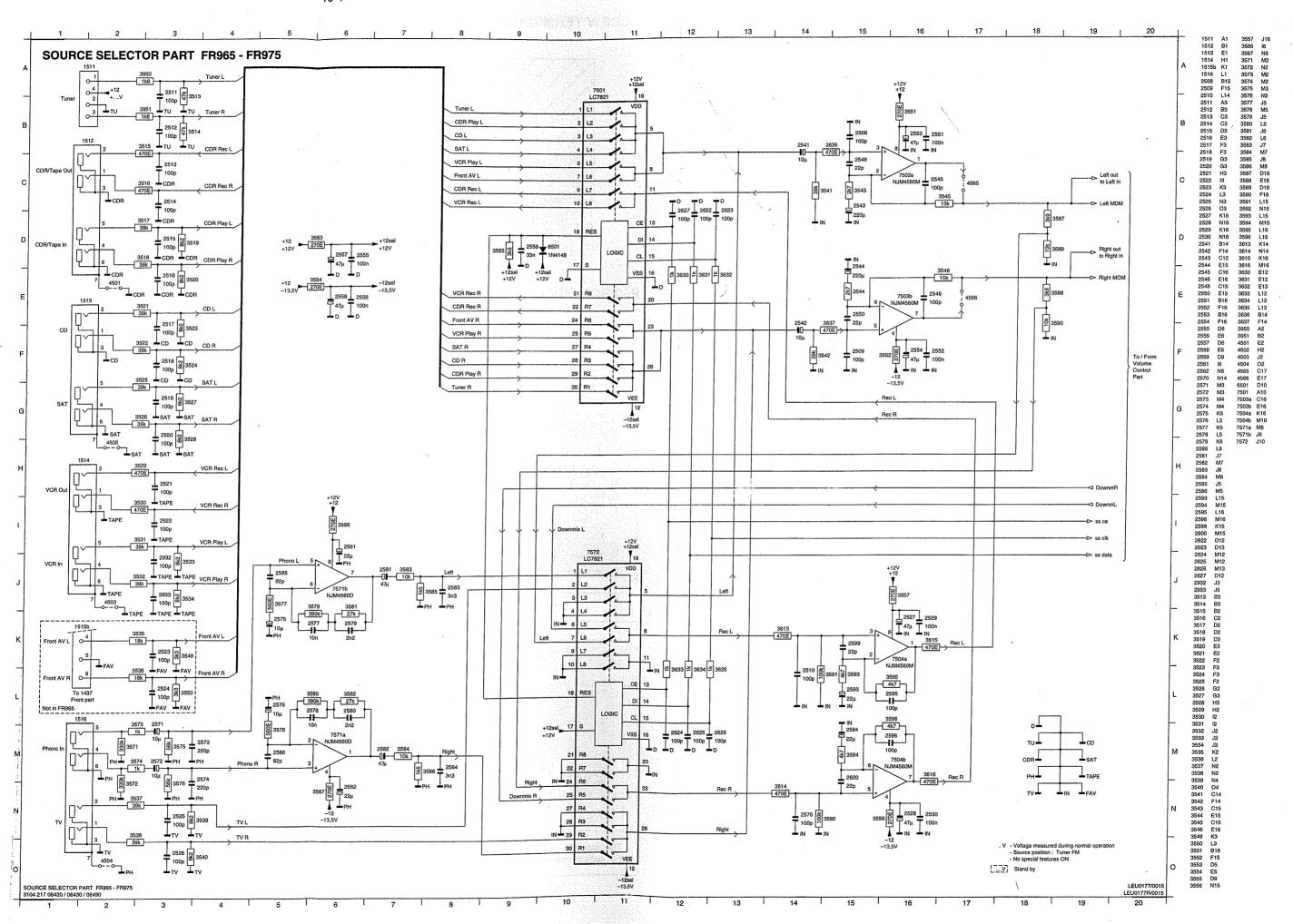
FR965/00mdi18-04-00

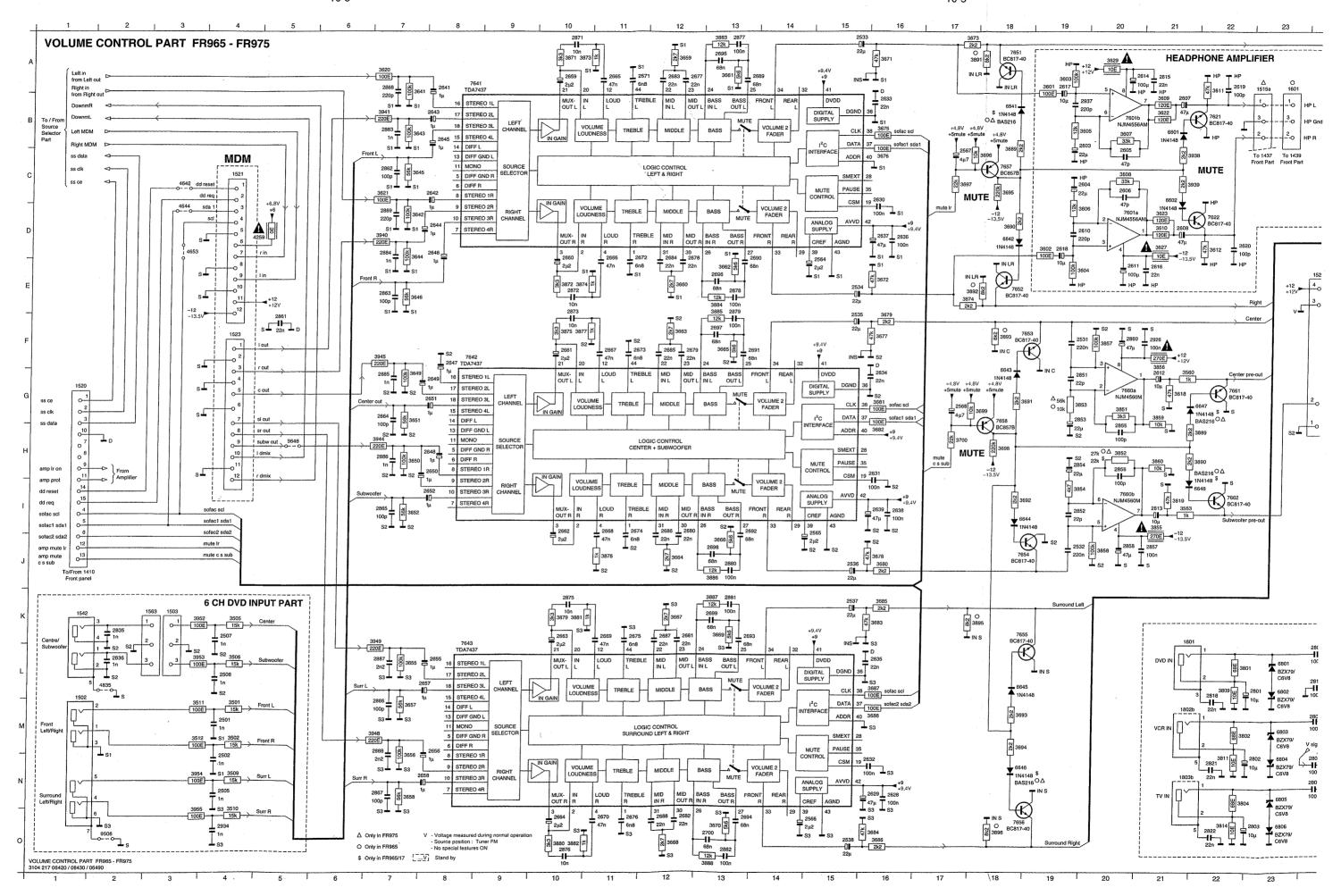


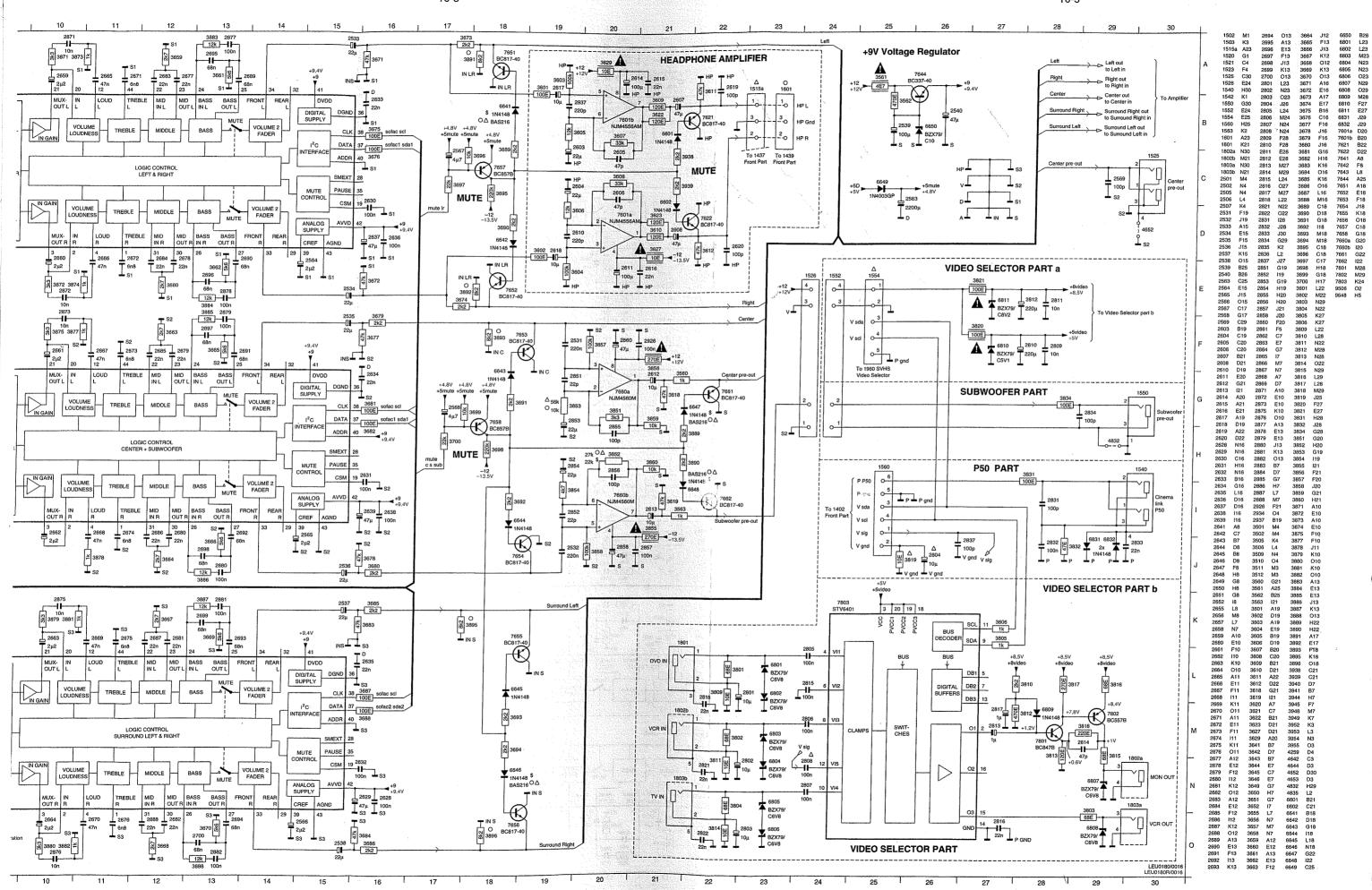
PCS 105 758

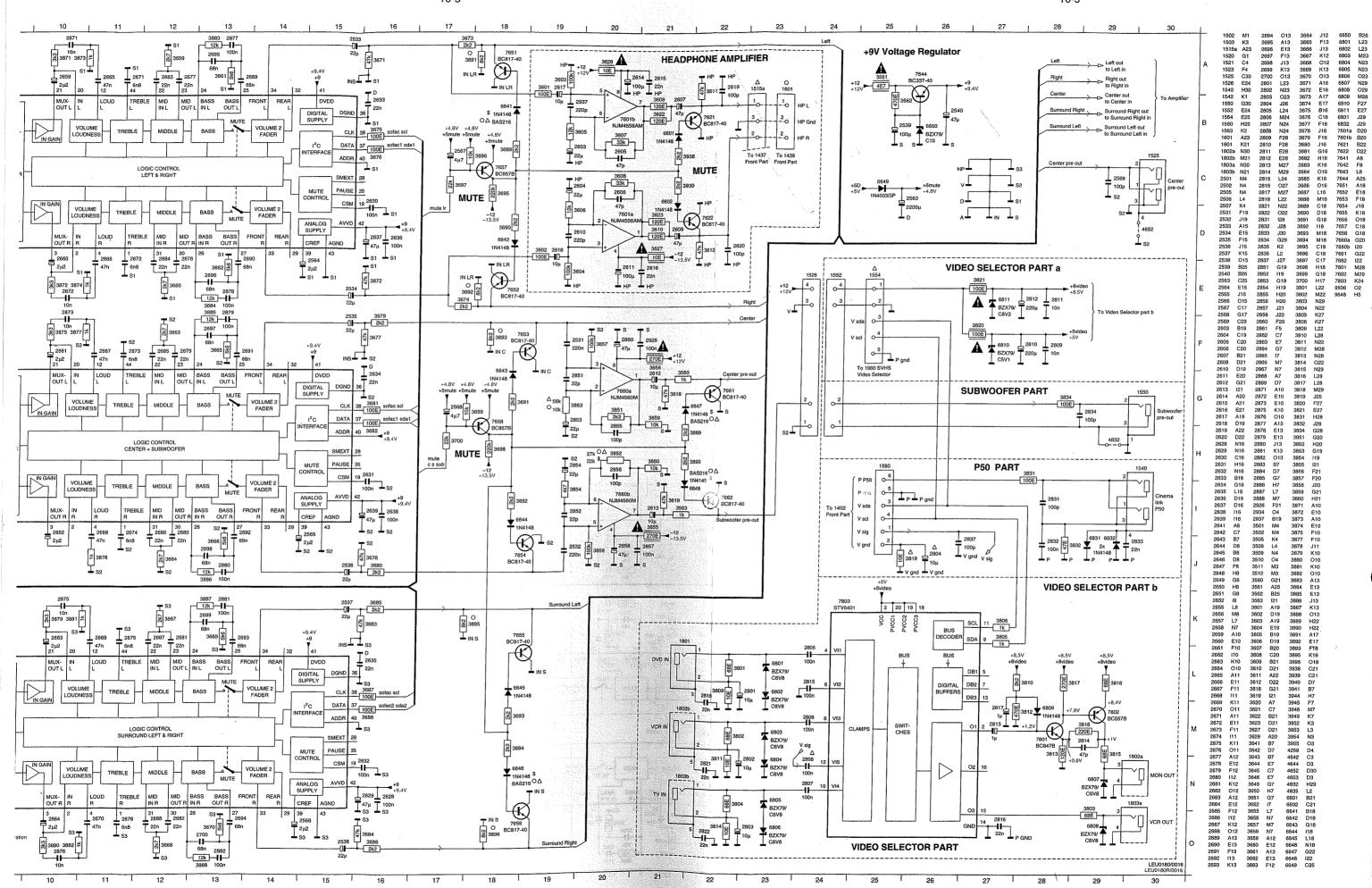
MDM is working properly

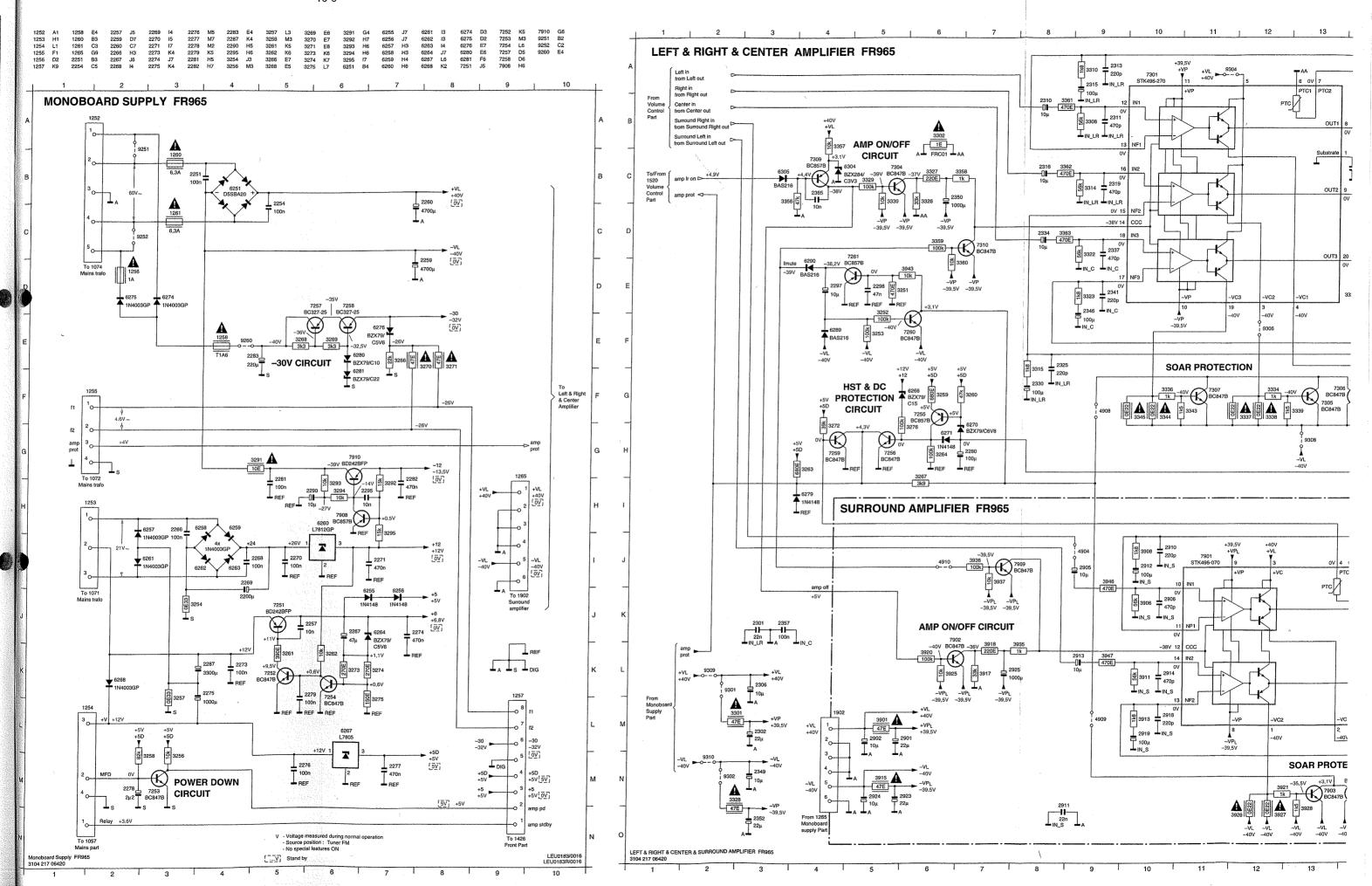
DCG 105 750











SURROUND AMPLIFIER FR965 2910 220p 2906 470p AMP ON/OFF CIRCUIT 7902 40V BC847B 2908 220n A 100μ IN_S SOAR PROTECTION

7904
9921
93921
1K
7903
BC847B
33
BC847B V - Voltage measured during nor
 Source position : Tuner FM
 No special features ON LEFT & RIGHT & CENTER & SURROUND AMPLIFIER FR965 3104 217 06420 10

